

MDCAT Physics MCQ's Test

Sr	Questions	Answers Choice
1	The young's modulus of a wire of length L and radius 'r' is Y. If the length is reduced to L/2 and radius to r/2, its Young's modulus will be	A. Y/2 B. Y C. 2Y D. 4Y
2	A photo cell is based on:	A. Compton effect B. Pair production C. Photo cell D. All of these
3	A material having high refractive index has	A. Low density B. High density C. Zero density D. None of these
4	A wire can support a load W without breaking. It is cut into two equal parts. The maximum load that each part can support is:	A. W/4 B. W/2 C. W D. 2 W
5	A boy is travelling from Lahore to Karachi with uniform velocity . Its	A. Speed changes B. Acceleration changes C. Direction of motion changes D. Displacement from origin changes
6	The critical temperature of aluminum is	A. 1.18 K B. 4.2 K C. 3.72 K D. 7.2 K
7	The ultimate tensile strength (UTS) can be regarded as the	A. Maximum strength of the material B. Nominal strength of the material C. Minimum strength of the material D. None of these
8	In a closed organ pipe, the fundamental frequency is f. What will be the ratio of the frequencies of the next three overtones?	A. 2 : 3 : 4 B. 3 : 7 : 11 C. 3 : 4 : 5 D. 3 : 5 : 7
9	Crystalline solids are in the form of:	A. Metals B. Ionic compounds C. Ceramics D. Both A and B E. All of these
10	Plane polarized light can be produced by:	A. Simple reflection B. Refraction C. Selective absorption D. All of these
11	Conductors are those materials in which energy gap is	A. very large (several eV) B. very narrow (= 1eV) C. either of them D. none of them
12	When an atom is surrounded by large number of atoms their the energy levels are	A. Distinct B. Very close C. Energy band D. None of these
13	The wavelength of X-rays is about	A. 10^{-14} m B. 10^{-10} m C. 10^{-6} m D. 10^{-4} m
14	A _____ lens is used in the apparatus to get newton's ring:	A. Plano-concave B. Plano-convex C. Convexo concave D. Double covex
15	One kilogram is actually mass of platinum iridium alloy cylinder kept at international bureau of weights and measures in france. the ratio of platinum and iridium:	A. 90% : 10% B. 10% : 90% C. 50% : 50% D. 20% : 80%

D. 60% : 40%

16	Point out angle/angle at which the $\sin \theta$ and $\tan \theta$ have the same value	A. 2 ^o and 8 ^o B. 4 ^o and 6 ^o C. 2 ^o and 4 ^o D. 8 ^o and 10 ^o
17	The colour of light is determined by is	A. Wavelength B. Frequency C. Velocity D. Amplitude
18	Mirage is a phenomenon due to	A. Reflection of light B. Refraction of light C. Total internal reflection of light D. Diffraction of light
19	The average time the Earth takes to make exactly one rotation about its axis is defined as:	A. A solar hour B. A solar day C. A light year D. A solar month
20	Significant figures in 1.0011000 are:	A. Eight B. Seven C. Six D. Five